

SOLID-LIQUID SEPARATOR

ABSTRACT

The solid-liquid components separator includes layered rotary filter units 1t arranged inside a treatment tank 9. Each layered rotary filter unit 1t includes a plurality of projection-equipped disk filter pieces 5 having back surfaces and end faces of projections 5t abutting each other to form filter grooves S. To alternately arrange large-diameter disk filter pieces 2 and small-diameter disk filter pieces 3 in the respective filter grooves S, the filter pieces 5, 2, 3 with different diameters are stacked sequentially on an outer periphery of a rotary shaft 4 inserted therethrough. Outer circumferential edge of the large-diameter disk filter pieces 2 of one of the rotary filter units 1t is disposed close to the projections 5t and outer circumferential edges of the small-diameter filter pieces 3 in the respective filter grooves S of another rotary filter unit 1t. The large-diameter filter piece 2 and small-diameter filter piece 3 are oscillated in the axial direction inside the filter grooves S and are configured to rotate synchronously with the rotary shaft 4.

[Fig 1]